SEP 3

Docket No.: 064693-0074

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Customer Number: 33401

MARMARELIS, VASILIS Z., et al.

Confirmation Number: 4072

Serial No.: 10/623,426

Group Art Unit: 3737

Filed: July 18, 2003

Examiner: Not known

For:

OPTIMIZATION OF THE EXCITATION WAVEFORM FOR TRANSMIT-RECEIVE

SYSTEMS

CERTIFICATE OF MAILING UNDER CFR 1.08

I hereby certify that that on September 1, 2005, this correspondence is being deposited with the United States Postal Service as First Class Mail under 37 CFR 1.8(a) in an envelope addressed to Mail Stop Petitions, commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Jessica Brow

AMENDMENT, PETITION AND FEE TO ADD INVENTOR UNDER 37 CFR 148

Mail Stop Petitions Commissioner for Patents P.O. Box 1450 Alexandria, VA. 22313-1450

Sir:

PETITION

Assignee petitions the Commissioner to correct the inventorship of the above-identified patent application in all appropriate records of the U.S. Patent and Trademark Office.

AMENDMENT

Please amend the records for the above-identified application to jointly name all of the following three inventors (one of whom is newly added):

Serial No.: 10/623,426 Customer No. 33401

Vasilis Z. Marmarelis;

Ramez Emile Necola Shehada; and

Tae-Seong Kim

REMARKS

This application was originally filed in the names of Vasilis Z. Marmarelis and Tae-Seong Kim. Applicants are requesting amendment of the records to add one more joint inventor, Ramez Emile Necola Shehada.

As shown by the attached Statement by the added inventor, Dr. Shehada believes he is a joint inventor of the subject matter claimed in this application but was omitted from the list of inventors on the filing papers through no deceptive intent on his part. As shown by the attached Statements of Marmarelis and Kim, Dr. Shehada is a joint inventor of the subject matter claimed in this application but was omitted from the list of inventors on the filing papers through no deceptive intent on their parts.

All three of the inventors have executed a new Declaration in compliance with 37 CFR 1.63, which is filed herewith.

The originally named inventors assigned the application to Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California, as shown by the assignment recorded in the U.S. Patent and Trademark Office (Reel 014764 Frame 0636). The Assignee's Consent is also attached.

The Commissioner is hereby authorized to charge the Petition Fee of \$130.00 (37 CFR 1.17(i)) to Deposit Account 501946.

Serial No.: 10/623,426 Customer No. 33401

Applicants submit that the Petition and accompanying documentation satisfies all requirements for correction of inventorship under 37 CFR 1.48(a). An early consideration and grant of this Petition, we well as a prompt entry of the amendment of the inventorship on the Patent, are earnestly solicited.

Respectfully submitted,

MCDERMOTT WILL & EMERY LLP

Marc E. Brown

Registration No. 28,590

2049 Century Park East, Suite 3400

Los Angeles, California 90067

Phone: (310-788-4125

Fax: (310) 277-4730 Date: September 27, 2005

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Docket No.: 064693-0074

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Customer Number: 33401 MARMARELIS, VASILIS Z., et al. Serial No.: 10/623,426 Group Art Unit: 3737 Filed: July 18, 2003 Examiner: Not known OPTIMIZATION OF THE EXCITATION WAVEFORM FOR TRANSMIT-RECEIVE For: **SYSTEMS** ASSENT OF ASSIGNEE TO CORRECTION AND/OR ADDITION TO **ORIGINAL NAMED INVENTOR(S)** Commissioner for Patents Washington, DC 20231 Sir: Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California (type or print name of assignee) 1042 Downey Way DRB B21 (address) Los Angeles, CA 90089-1112 Assignment: X recorded on June 22, 2004 from Vasilis Z. Marmarelis and Tae-Seong Kim Reel 014764 Frame 0636 \boxtimes recorded herewith \boxtimes A separate "ASSIGNMENT" (DOCUMENT) COVER SHEET on behalf of Ramez Emile Necola Shehada hereby assents to the correction of inventorship filed. herewith

Serial No.: 10/623,426 Customer No. 33401

ASSIGNEE CERTIFICATION

In accordance with 37 CFR 3.73, the assignee hereby certifies that the evidentiary documents with respect to its ownership have been reviewed and that, to the best of the assignee's knowledge and belief, title is in the assignee seeking to take this action.

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Date

Peter Staudhammer, Ph.D, Director

Name and title of person authorized to sign on behalf of assignee

COPY

Docket No.: 64693-074

ASSIGNMENT

WHEREAS, I, Ramez Emile Necola Shehada, ("ASSIGNOR") have invented "OPTIMIZATION OF EXCITATION WAVEFORM FOR NONLINEAR TRANSMIT-RECEIVE SYSTEMS" ("Invention") have invented certain new and useful improvements disclosed in an application for United States Patent Application Serial No. 10/623,426, filed July 18, 2003;

WHEREAS, I am a joint inventor of the Invention;

WHEREAS, Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California, ("ASSIGNEE") is a corporation organized and existing under the laws of Delaware USA, having a place of business at 1042 Downey Way, DRB B21, Los Angeles, CA 90089-1112.

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to

for valuable consideration, the receipt and legal sufficiency of the state of the s

- 1. The Invention;
- 2. The Application;
- 3. All applications based on or claiming priority from the Application, including all divisionals and continuations ("Application Family");
- 4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents");
- 5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNOR agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNOR also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNOR authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and in any and all foreign countries in which applications for patents can be made or patents obtained.

	ame: Ramez Emile Necola Shehada ddress: 14759 Hardaway Drive a Mirada, California 90638-3030
STATE OF CALIFORNIA)) ss. COUNTY OF LOS ANGELES)	·
On Sept. 19, 2005 before Maria Necola Shehada, personally known to me or evidence) to be the person(s) whose name(s) is acknowledged to me that he/she/they executed	the same in his/her/their authorized capacity(ies), trument, the person(s), or the entity upon behalf of
WITNESS my hand and official seal. When a Dela Gazz Notary Public	(SEAL) MARIA G. DE LA GARZA Commission # 1866224 Notary Public - California Los Angeles County My Comm. Expires Apr 1, 2009
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Serial No.: 10/623,426

Group Art Unit: 3737

Filed: July 18, 2003

Examiner: Not known

For:

OPTIMIZATION OF THE EXCITATION WAVEFORM FOR TRANSMIT-RECEIVE

I, TAE-SEONG KIM, hereby affirm that I am a joint inventor of the above-referenced application, together with Ramez Emile Necola Shehada and Vasilis Z. Marmarelis and that the error in inventorship occurred without deceptive intention on my part on or about the time of the actual filing of the referenced application.

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Serial No.: 10/623,426

Group Art Unit: 3737

Filed: July 18, 2003

Examiner: Not known

Date: _

For:

OPTIMIZATION OF THE EXCITATION WAVEFORM FOR TRANSMIT-RECEIVE

SYSTEMS

I, VASILIS Z. MARMARELIS, hereby affirm that I am a joint inventor of the abovereferenced application, together with Ramez Emile Necola Shehada and Tae-Seong Kim and that the error in inventorship occurred without deceptive intention on my part on or about the time of the actual filing of the referenced application.

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Marmarelis

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Docket No.: 064693-0074

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Customer Number: 33401

MARMARELIS, VASILIS Z., et al.

Serial No.: 10/623,426

Group Art Unit: 3737

Filed: July 18, 2003

Examiner: Not known

For:

OPTIMIZATION OF THE EXCITATION WAVEFORM FOR TRANSMIT-RECEIVE

SYSTEMS

I, RAMEZ EMILE NECOLA SHEHADA, hereby affirm that I am a joint inventor of the above-referenced application, together with Vasilis Z. Marmarelis and Tae-Seong Kim and that the error in inventorship occurred without deceptive intention on or about the time of the actual filing of the referenced application.

Date

7/23/2005

DECLARATION AND PETITION

As a below named inventors we hereby declare that:

Our residence, post office addresses and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled "OPTIMIZATION OF EXCITATION WAVEFORM FOR NONLINEAR TRANSMIT-RECEIVE SYSTEMS," the specification of which is Application Serial No. 10/623,426, filed July 18, 2003.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 C.F.R. § 1.56(a).

We hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application of which priority is claimed.

PRIOR FOREIGN APPLICATION(S)

Number NONE Country

Filing Date

Priority Claimed?

PRIOR UNITED STATES APPLICATION(S)

We hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, we acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.

Filing Date

Status Status

PRIOR UNITED STATES PROVISIONAL APPLICATION

We hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.

60/397,378

Filing Date
July 19, 2002

Status Provisional

We hereby declare: All statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true. These statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, declaration, and this petition.

Full name of first inv	enton Vasilis Z. Marmarelis		
Inventor's signature	Wanger 2	Date_	7/22/05
Residence:	Rancho Palos Verdes, California		
Citizenship:	United States of America		
Post Office Address	37 Headland Drive		•
	Rancho Palos Verdes, California 90275-51	117	
Full name of second i	nventor Ramez Emile Necola Shehada		
Inventor's signature		Date_	
Residence:	La Mirada, California		
Citizenship:	United States of America		
Post Office Address	14759 Hardaway Drive		
	La Mirada, California 90638-3030		
Full name of third in	ventor Tae-Seong Kim		
Inventor's signature		Date_	
Residence:	Fullerton, California		
Citizenship:	Republic of Korea		
Post Office Address	3097 Primrose Lane		

Fullerton, California, USA 92833

fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, declaration, and this petition.

Full name of first inventor Vasilis Z. Marmarelis

Inventor's signature_		Date
Residence:	Rancho Palos Verdes, California	•
Citizenship:	United States of America	
Post Office Address	37 Headland Drive	
	Rancho Palos Verdes, California 90275-51	17
,	inventor Ramez Emile Necola Shehada	
Inventor's signature k	amez Emile Necla Shehada	Date 7/23/2005
Residence:	La Mirada, California	•
Citizenship:	United States of America	
Post Office Address	14759 Hardaway Drive	
	La Mirada, California 90638-3030	
Full name of third in	ventor Tae-Seong Kim	
Inventor's signature_		Date
Residence:	Fullerton, California	
Citizenship:	Republic of Korea	
Post Office Address	3097 Primrose Lane	e e e e e e e e e e e e e e e e e e e
	Fullerton, California, USA 92833	

fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Wherefore we pray that Letters Patent be granted to us for the invention or discovery described and claimed in the foregoing specification and claims, and we hereby subscribe our names to the foregoing specification and claims, declaration, and this petition.

Full name of first inventor Vasilis Z. Marmarelis

Inventor's signature_		Date_	· · · · · · · · · · · · · · · · · · ·
Residence:	Rancho Palos Verdes, California		
Citizenship:	United States of America		
Post Office Address	37 Headland Drive		·
	Rancho Palos Verdes, California 90275-5	5117	
Full name of second	inventor Ramez Emile Necola Shehada		
Inventor's signature_		Date_	
Residence:	La Mirada, California		
Citizenship:	United States of America		
Post Office Address	14759 Hardaway Drive		,
	La Mirada, California 90638-3030	.1	
Full name of third in	ventor Tae-Seong Kim	31	
Inventor's signature_	Ihm, Tansered,	Date_	07/22/0/-
Residence:	Brea, California		<i>'</i> .
Citizenship:	Republic of Korea	•	•
Post Office Address	205 S. Poplar Ave	-	

Brea, California, USA 92821